

H.A

Notice of Allowability

Application No.

10/824,205

Applicant(s)

SHKONDIN, VASILY VASILIEVICH

Examiner

Burton S. Mullins

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed 10 January 2005.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☒ The drawings filed on 14 April 2004 & 10 January 2005 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☒ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☒ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☒ Other Copy of WO 2004/091957

BSM
Burton S. Mullins
Primary Examiner
Art Unit: 2834

DETAILED ACTION

Priority

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Russia on 18 April 2003. It is noted, however, that applicant has not filed a certified copy of the Russian application as required by 35 U.S.C. 119(b).

Oath/Declaration

2. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because the date of filing of the Russian priority document (PCT/RU03/00178) is dated 18 April 2004; however, the specification denotes the priority date to be 18 April 2003. See the attached copy of the first page of PCT/RU03/00178.

3. Applicant is now required to submit a substitute declaration or oath to correct the deficiencies set forth above. The substitute oath or declaration must be filed within the THREE MONTH shortened statutory period set for reply in the "Notice of Allowability" (PTO-37). Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136. Failure to timely file the substitute declaration (or oath) will result in **ABANDONMENT** of the application. The transmittal letter accompanying the declaration (or oath) should indicate the date of the "Notice of Allowance" (PTOL-85) and the application number in the upper right hand corner.

EXAMINER'S AMENDMENT

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4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee. The application has been amended as follows:


In the ABSTRACT:

Delete "P:\Brett\98148.31.pat.wpd" on line 9.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Burton S. Mullins whose telephone number is 571-272-2029. The examiner can normally be reached on Monday-Friday, 9 am to 5 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Burton S. Mullins
Primary Examiner
Art Unit 2834

(12) МЕЖДУНАРОДНАЯ ЗАЯВКА, ОПУБЛИКОВАННАЯ В СООТВЕТСТВИИ С
ДОГОВОРом О ПАТЕНТНОЙ КООПЕРАЦИИ (РСТ)

(19) ВСЕМИРНАЯ ОРГАНИЗАЦИЯ
ИНТЕЛЛЕКТУАЛЬНОЙ СОБСТВЕННОСТИ
Международное бюро



РСТ



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28 октября 2004 (28.10.2004)

(10) Номер международной публикации:
WO 2004/091957 A1

(51) Международная патентная классификация⁷:
B60K 7/00, H02K 21/26

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(RU) [DEMENTIEV, Vladimir Nikolaevich,
Moscow (RU)].

(21) Номер международной заявки: РСТ/RU2003/000178

(22) Дата международной подачи:
18 апреля 2003 (18.04.2003)

(25) Язык подачи: русский

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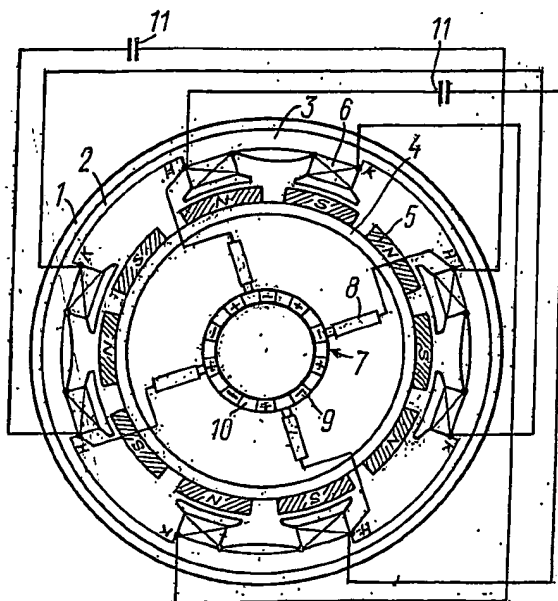
(81) Указанные государства (национально): AE, AG,
AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ,
CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ,
EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID,
IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NI, NZ, OM, PH, PL, PT, RO, RU,
SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Указанные государства (регионально): ARIPO па-
тент (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ,
UG, ZM, ZW), евразийский патент (AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM), европейский патент
(AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI,
SK, TR), патент OAPI (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Продолжение на след. странице]

(54) Title: ELECTRIC MOTOR

(54) Название изобретения: ЭЛЕКТРОДВИГАТЕЛЬ



(57) Abstract: The invention relates to electrotechnical and mechanical engineering, in particular to the structural embodiment features of electric motors, mainly for means of transport. Said invention is characterised in that the inventive electric motor consists of a rotor (3) provided with electromagnets (6), a stator (2) comprising a circular magnetic circuit (4) which is provided with an even number of permanent magnets (5) fixed thereto at an equal distance from each other, a distribution manifold (7) which is provided with conductive plates (9) and arranged on the stator body and current collectors (8) connected to the coil windings of the rotor electromagnets. According to said invention, the coil windings of the adjacent rotor electromagnets are connected to each other pairwise in series aiding and connected in series opposition to the coil windings of the pair of diametrically opposite electromagnets. In addition, capacitors are connected to the ends of the winding, which are connected to the collectors, in such a way that resonance circuits are formed, the number (n) of the stator permanent magnets and the number (m) of said resonance circuits are defined according to a relation $n=10+4k$, wherein $k=0, 1, 2, 3, \dots$, the number

of the collector plates of the distribution collector is equal to the number of the stator permanent magnets, the central lines of the dielectric gaps (10) of the distribution collector are oriented along the central lines of said magnets. Said invention increases the torque of the electric motor.

[Продолжение на след. странице]

WO 2004/091957 A1

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DOCUMENT-IDENTIFIER: WO 2004091957 A1
TITLE: ELECTRIC MOTOR
PUBN-DATE: October 28, 2004

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COUNTRY
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APPL-NO: RU00300178

APPL-DATE: April 18, 2003

PRIORITY-DATA: RU00300178W (April 18, 2003)

INT-CL (IPC): B60K007/00, H02K021/26

EUR-CL (EPC): H02K013/10 ; H02K023/34

ABSTRACT:

CHG DATE=20041109 STATUS=O>The invention relates to electrotechnical and mechanical engineering, in particular to the structural embodiment features of electric motors, mainly for means of transport. Said invention is characterised in that the inventive electric motor consists of a rotor (3) provided with electromagnets (6), a stator (2) comprising a circular magnetic circuit (4) which is provided with an even number of permanent magnets (5) fixed thereto at an equal distance from each other, a distribution manifold (7) which is provided with conductive plates (9) and arranged on the stator body

and current collectors (8) connected to the coil windings of the rotor electromagnets. According to said invention, the coil windings of the adjacent rotor electromagnets are connected to each other pairwise in series aiding and connected in series opposition to the coil windings of the pair of diametrically opposite electromagnets. In addition, capacitors are connected to the ends of the winding, which are connected to the collectors, in such a way that resonance circuits are formed, the number (n) of the stator permanent magnets and the number (m) of said resonance circuits are defined according to a relation $n=10+4k$, wherein $k=0, 1, 2, 3, \dots$, the number of the collector plates of the distribution collector is equal to the number of the stator permanent magnets, the central lines of the dielectric gaps (10) of the distribution collector are oriented along the central lines of said magnets. Said invention increases the torque of the electric motor.